**TDMS No.** 96019 - 05 P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)

**CAS Number:** 5589-96-8

Species/Strain: RATS/F 344 Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

F1\_R2

C Number: C96019

Lock Date: 07/14/2004

Cage Range: ALL

Test Type: CHRONIC

Route: DOSED WATER

**Date Range:** ALL

**Reasons For Removal:** 25021 TSAC 25020 NATD 25019 MSAC

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL Date Report Regsted: 03/28/2006

Time Report Regsted: 15:00:22 First Dose M/F: 09/26/01 / 09/26/01

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

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Early Deaths   Moribund Sacrifice   15   17   17   17   18   17   Natural Death   4   7   8   25   25   25   27   25   27   26   25   27   27   27   28   27   28   28   29   29   29   29   29   29	66 17 4 29 50
Animals Initially in Study 66 66 66 66 66 66 66 66 66 66 66 66 66	17 4 29
Early Deaths   Moribund Sacrifice   15   17   17   17   18   17   Natural Death   4   7   8   8	17 4 29
Moribund Sacrifice         15         17         17         17           Natural Death         4         7         8         4           Survivors         Terminal Sacrifice         31         26         25         2           Animals Examined Microscopically         50         50         50         50         5           ALIMENTARY SYSTEM           Esophagus         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (50)         (48)         (47)         (48)         (48)         (47)         (48)         (48)         (47)         (49)         (50)         (48)         (47)         (48)         (47)         (48)         (47)         (48)         (47)         (49)         (50)         (48)         (47)         (49)         (50)         (49)         (50)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49)         (49) <t< td=""><td>4 29</td></t<>	4 29
Natural Death Survivors         4         7         8           Terminal Sacrifice         31         26         25         2           Animals Examined Microscopically         50         50         50         5           ALIMENTARY SYSTEM           Esophagus         (50)         (50)         (50)         (50)         (50)           Intestine Large, Cecum         (48)         (48)         (47)         (49)           Edema         5 [1.4]         1 [1.0]         1 [1.0]         6 [1.1]           Inflammation         1 [3.0]         1 [2.1]         1 [2.1]           Intestine Large, Colon         (50)         (49)         (50)         (48)           Intestine Large, Rectum         (50)         (50)         (50)         (49)           Intestine Small, Duodenum         (50)         (49)         (50)         (49)           Inflammation         (49)         (46)         (47)         (49)           Inflammation         (47)         (46)         (46)         (48)           Inflammation         1 [2.1]         (46)         (46)         (48)           Inflammation         1 [1.0]         (47)         (46)         (46)         (46)	4 29
Survivors   Terminal Sacrifice   31   26   25   25   25   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   25   26   26	29
ALIMENTARY SYSTEM  Esophagus (50) (50) (50) (50) (50) (50) (50) (50)	
ALIMENTARY SYSTEM  Esophagus (50) (50) (50) (50) (50) (50) (50) (50)	50
Esophagus (50) (50) (50) (50) (50) (50) Intestine Large, Cecum (48) (48) (48) (47) (49) Edema 5 [1.4] 1 [1.0] 1 [1.0] 6 [1.4] Inflammation 1 [3.0] (50) (49) (50) (48] Inflammation (50) (50) (50) (50) (49) Intestine Large, Rectum (50) (50) (50) (50) (49) (50) (49) Intestine Small, Duodenum (50) (49) (50) (49) (50) (49) Intestine Small, Ileum (49) (46) (47) (49) Inflammation (47) (49) (46) (46) (48) Inflammation (48) Inflammation (48) (47) (46) (48) (48) Inflammation (48) Inflammation (48) (49) (46) (46) (48) (48) Inflammation (48) Inflammation (48) (48) (48) (48) (48) (48) (48) (48)	
Esophagus (50) (50) (50) (50) (50) (50) Intestine Large, Cecum (48) (48) (48) (47) (49) Edema 5 [1.4] 1 [1.0] 1 [1.0] 6 [1.1	
Intestine Large, Cecum       (48)       (48)       (47)       (49)         Edema       5 [1.4]       1 [1.0]       1 [1.0]       6 [1.4]         Inflammation       1 [3.0]       (49)       (50)       (48)         Inflammation       1 [4.0]       (50)       (50)       (50)       (49)         Intestine Large, Rectum       (50)       (50)       (50)       (49)         Intestine Small, Duodenum       (50)       (49)       (50)       (49)         Intestine Small, Ileum       (49)       (46)       (47)       (49)         Intestine Small, Jejunum       (47)       (46)       (46)       (48)         Inflammation       1 [1.0]       (46)       (46)       (48)	(50)
Edema       5 [1.4]       1 [1.0]       1 [1.0]       6 [1.4]         Inflammation       1 [3.0]       (49)       (50)       (48)         Inflammation       1 [4.0]       (50)       (50)       (50)       (50)       (49)         Intestine Large, Rectum       (50)       (50)       (50)       (50)       (49)         Intestine Small, Duodenum       (50)       (49)       (50)       (49)         Intestine Small, Ileum       (49)       (46)       (47)       (49)         Intestine Small, Jejunum       (47)       (46)       (46)       (48)         Inflammation       1 [1.0]       (46)       (46)       (48)	50) (40)
Inflammation       1 [3.0]       (49)       (50)       (48)         Intestine Large, Colon       (50)       (49)       (50)       (48)         Inflammation       1 [4.0]       (50)       (50)       (50)       (49)         Intestine Small, Duodenum       (50)       (49)       (50)       (49)         Intestine Small, Ileum       (49)       (46)       (47)       (49)         Intestine Small, Jejunum       (47)       (46)       (46)       (48)         Inflammation       1 [1.0]       (46)       (46)       (48)	
Intestine Large, Colon       (50)       (49)       (50)       (48)         Inflammation       1 [4.0]         Intestine Large, Rectum       (50)       (50)       (50)       (49)         Intestine Small, Duodenum       (50)       (49)       (50)       (49)         Intestine Small, Ileum       (49)       (46)       (47)       (49)         Intestine Small, Jejunum       (47)       (46)       (46)       (48)         Inflammation       1 [1.0]	[2.0]
Inflammation       1 [4.0]         Intestine Large, Rectum       (50)       (50)       (50)       (49)         Intestine Small, Duodenum       (50)       (49)       (50)       (49)         Intestine Small, Ileum       (49)       (46)       (47)       (49)         Inflammation       1 [2.0]       (46)       (46)       (48)         Inflammation       1 [1.0]       (46)       (46)       (48)	
Intestine Large, Rectum       (50)       (50)       (50)       (49)         Intestine Small, Duodenum       (50)       (49)       (50)       (49)         Intestine Small, Ileum       (49)       (46)       (47)       (49)         Inflammation       1 [2.0]       (46)       (46)       (48)         Inflammation       1 [1.0]       (46)       (46)       (48)	,
Intestine Small, Ileum       (49)       (46)       (47)       (49)         Inflammation       1 [2.0]         Intestine Small, Jejunum       (47)       (46)       (46)       (48)         Inflammation       1 [1.0]	(49)
Inflammation       1 [2.0]         Intestine Small, Jejunum       (47)       (46)       (46)       (48)         Inflammation       1 [1.0]	(49)
Intestine Small, Jejunum (47) (46) (46) (48) Inflammation 1 [1.0]	
Inflammation 1 [1.0]	
	48)
LIVEL (30) (30) (30)	(EO)
Amyloid Deposition 1 [1.0]	30)
Anyloid Deposition 7 [1.0]  Angiectasis 2 [1.0] 5 [1.2] 2 [1.0] 2 [1.0]	[1.5]
Basophilic Focus 6 5 4 3	
Clear Cell Focus 22 21 [3.0] 23 20	
Degeneration, Cystic 13 [1.2] 13 [1.3] 12 [1.3] 18 [1.	
Eosinophilic Focus 2 5 4 8	8
Hepatodiaphragmatic Nodule         11 [1.5]         13 [1.9]         7 [1.6]         4 [1.	
Inflammation, Chronic 10 [1.0] 12 [1.1] 12 [1.1] 8 [1.1]	
Malformation 1	•
Mixed Cell Focus       4       3       4       2         Necrosis, Focal       2 [1.0]       2 [1.0]	2
Necrosis, Focal       2 [1.0]       2 [1.0]         Bile Duct, Hyperplasia       45 [2.4]       49 [2.7]       46 [2.5]       44 [2.6]	
Centrilobular, Necrosis 4 [1.3] 7 [1.3] 8 [1.4] 8 [1.4]	[2 4]

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

Species/Strain: RATS/F 344

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**CAS Number:** 5589-96-8

Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Regsted: 03/28/2006

Time Report Reqsted: 15:00:22 First Dose M/F: 09/26/01 / 09/26/01

Hepatocyte, Vacuolization Cytoplasmic   3 [2.0]   6 [1.5]   3 [1.7]   2 [2.0]	1000 MG/L	1000 MG/I	500 MG/L	250 MG/L	0 MG/L	FISCHER 344 RATS MALE
Mesentery         (6)         (16)         (15)         (15)           Accessory Spleen         1 [2.0]         1 [2.0]           Angiectasis         1 [2.0]         1 [2.0]           Degeneration         1 [1.0]         1 [1.0]           Fat, Necrosis         6 [2.8]         8 [2.6]         9 [2.8]         9 [2.4]           Oral Mucosa         (0)         (0)         (1)         (1)           Pancreas         (50)         (50)         (50)         (50)           Atrophy         29 [1.3]         28 [1.5]         26 [1.6]         29 [1.4]           Cyst         1 [2.0]         1 [2.0]           Adinus, Hyperplasia, Focal         7 [1.4]         3 [1.3]         2 [2.0]         7 [1.9]           Salivary Glands         (50)         (50)         (50)         (50)         (50)           Inflammation         1 [2.0]         1 [2.0		1000 1110/12		200 1110/12		TIOGNER OFF NATO MALE
Mesentery	2 [2.0]	2 [2.0]	3 [1.7]	6 [1.5]	3 [2.0]	Hepatocyte, Vacuolization Cytoplasmic
Accessory Spleen Angiectasis Degeneration Fat, Necrosis 6 [2.8] 8 [2.6] 9 [2.8] 9 [2.4] Oral Mucosa (0) (0) (1) (1) Pancreas (50) (50) (50) (50) (50) Atrophy 29 [1.3] 28 [1.5] 26 [1.6] 29 [1.4] Cyst Acinus, Hyperplasia, Focal Salivary Glands (50) (50) (50) (50) (50) Inflammation (50) (50) (50) (50) (50) Inflammation, Chronic Active Ulcer Ulcer Epithelium, Hyperplasia 6 [2.2] 5 [2.4] 5 [1.8] 8 [2.5] Stomach, Glandular (50) (50) (50) (50) Edema 4 [1.2] 2 [2.0] Ulcer 1 [2.0] Stomach, Glandular (50) (50) (50) (50) (50) Edema 4 [1.5] 3 [1.7] 1 [1.0] Erosion Frosion						
Anglectasis Degeneration Fat, Necrosis 6 [2.8] 8 [2.6] 9 [2.8] 9 [2.4] Oral Mucosa (0) (0) (0) (1) (1) (1) Pancreas (50) 650) 650) 650) 650) 650) Atrophy 29 [1.3] 28 [1.5] 26 [1.6] 29 [1.4] Cyst 1 [2.0] Acinus, Hyperplasia, Focal 7 [1.4] 3 [1.3] 2 [2.0] 7 [1.9] Salivary Glands (50) (50) (50) (50) 1 [2.0] Stomach, Forestomach (50) (50) (50) (50) (50) (50) (50) (50)				,	( /	
Degeneration   1   1   1   1   1   1   1   1   1	. ,		1 [2.0]			
Fat, Necrosis 6 [2,8] 8 [2,6] 9 [2,8] 9 [2,4] Oral Mucosa (0) (0) (0) (1) (1) (1) Pancreas (50) (50) (50) (50) (50) (50) (50) (50)	1 [1.0]	1 [1.0]				
Oral Mucosa     (0)     (0)     (1)     (1)       Pancreas     (50)     (50)     (50)     (50)       Atrophy     29 [1.3]     28 [1.5]     26 [1.6]     29 [1.4]       Cyst     1 [2.0]       Acinus, Hyperplasia, Focal     7 [1.4]     3 [1.3]     2 [2.0]     7 [1.9]       Salivary Glands     (50)     (50)     (50)     (50)       Inflammation     1 [2.0]       Stomach, Forestomach     (50)     (50)     (50)     (50)       Edema     4 [2.3]     4 [1.8]     4 [1.5]     6 [2.3]       Erosion     1 [2.0]     1 [1.0]     1 [1.0]       Ulcer     3 [3.0]     3 [2.7]     2 [3.5]     5 [3.6]       Epithelium, Hyperplasia     6 [2.2]     5 [2.4]     5 [1.8]     8 [2.5]       Stomach, Glandular     (50)     (50)     (50)     (50)     (50)       Edema     4 [1.5]     3 [1.7]     1 [1.0]     6 [1.7]       Erosion     7 [2.4]     5 [2.2]     7 [2.0]     8 [1.8]       Hyperplasia     1 [2.0]     1 [1.0]     1 [1.0]       Ulcer     2 [3.0]     3 [1.7]     2 [3.0]     1 [1.0]       Tongue     (0)     (1)     (0)     (1)     (2)       MARDIOVAS	9 [2.4]	9 [2.4]	9 [2.8]	8 [2.6]	6 [2.8]	
Pancreas (50) (50) (50) (50) (50) (50) (50) (50)						
Atrophy Cyst	(50)	( <del>S</del> O)	( <del>Š</del> Ó)	( <del>S</del> Ó)	(ŠÓ)	Pancreas
Cyst   Acinus, Hyperplasia, Focal   7 [1.4]   3 [1.3]   2 [2.0]   7 [1.9]						Atrophy
Acinus, Hyperplasia, Focal 7 [1.4] 3 [1.3] 2 [2.0] 7 [1.9]   Salivary Glands (50) (50) (50) (50) (50) (50)   Inflammation				• •		
Salivary Glands     (50)     (50)     (50)     (50)       Inflammation     1[2.0]       Stomach, Forestomach     (50)     (50)     (50)       Edema     4 [2.3]     4 [1.8]     4 [1.5]     6 [2.3]       Erosion     1 [2.0]     1 [1.0]     1 [1.0]       Inflammation, Chronic Active     1 [2.0]     1 [2.0]       Ulcer     3 [3.0]     3 [2.7]     2 [3.5]     5 [3.6]       Epithelium, Hyperplasia     6 [2.2]     5 [2.4]     5 [1.8]     8 [2.5]       Stomach, Glandular     (50)     (50)     (50)     (50)     (50)       Edema     4 [1.5]     3 [1.7]     1 [1.0]     6 [1.7]       Erosion     7 [2.4]     5 [2.2]     7 [2.0]     8 [1.8]       Hyperplasia     1 [2.0]     1 [2.0]     1 [2.0]       Ulcer     2 [3.0]     3 [1.7]     2 [3.0]     1 [1.0]       Tongue     (0)     (1)     (0)     (1)       Hyperplasia     1 [1.0]     1 [1.0]       Tooth     (0)     (0)     (0)     (0)     (2)       MARDIOVASCULAR SYSTEM			2 [2.0]	3 [1.3]	7 [1.4]	Acinus, Hyperplasia, Focal
Inflammation Stomach, Forestomach (50) (50) (50) (50) Edema 4 [2.3] 4 [1.8] 4 [1.5] 6 [2.3] Erosion Inflammation, Chronic Active Ulcer 3 [3.0] 3 [2.7] 2 [3.5] 5 [3.6] Epithelium, Hyperplasia 6 [2.2] 5 [2.4] 5 [1.8] 8 [2.5] Stomach, Glandular (50) (50) (50) (50) Edema 4 [1.5] 3 [1.7] 1 [1.0] 6 [1.7] Erosion 7 [2.4] 5 [2.2] 7 [2.0] 8 [1.8] Hyperplasia 1 [2.0] Ulcer 2 [3.0] 3 [1.7] 2 [3.0] Tongue (0) (1) (0) (1) Hyperplasia Tooth (0) (0) (0) (0) (2) Malformation	(50)	(50)				Salivary Glands
Stomach, Forestomach     (50)     (50)     (50)     (50)       Edema     4 [2.3]     4 [1.8]     4 [1.5]     6 [2.3]       Erosion     1 [1.0]     1 [1.0]     1 [1.0]       Inflammation, Chronic Active     1 [2.0]     1 [2.0]       Ulcer     3 [3.0]     3 [2.7]     2 [3.5]     5 [3.6]       Epithelium, Hyperplasia     6 [2.2]     5 [2.4]     5 [1.8]     8 [2.5]       Stomach, Glandular     (50)     (50)     (50)     (50)       Edema     4 [1.5]     3 [1.7]     1 [1.0]     6 [1.7]       Erosion     7 [2.4]     5 [2.2]     7 [2.0]     8 [1.8]       Hyperplasia     1 [2.0]     1 [1.0]     0     (1)       Ulcer     2 [3.0]     3 [1.7]     2 [3.0]     1 [1.0]       Tongue     (0)     (1)     (0)     (1)       Hyperplasia     1 [1.0]     1 [1.0]       Tooth     (0)     (0)     (0)     (0)     (2)       MARDIOVASCULAR SYSTEM			,	,	,	Inflammation
Edema 4 [2.3] 4 [1.8] 4 [1.5] 6 [2.3]	(50)	(50)	(50)	(50)	(50)	
Erosion Inflammation, Chronic Active Inflammation, Inflammatio						
Inflammation, Chronic Active Ulcer 3 [3.0] 3 [2.7] 2 [3.5] 5 [3.6] Epithelium, Hyperplasia 6 [2.2] 5 [2.4] 5 [1.8] 8 [2.5] Stomach, Glandular (50) (50) (50) (50) (50) (50) (50) (50)				1	1	
Ulcer 3 [3.0] 3 [2.7] 2 [3.5] 5 [3.6] Epithelium, Hyperplasia 6 [2.2] 5 [2.4] 5 [1.8] 8 [2.5] Stomach, Glandular (50) (50) (50) (50) (50) Edema 4 [1.5] 3 [1.7] 1 [1.0] 6 [1.7] Erosion 7 [2.4] 5 [2.2] 7 [2.0] 8 [1.8] Hyperplasia 1 [2.0] Ulcer 2 [3.0] 3 [1.7] 2 [3.0] Tongue (0) (1) (0) (1) Hyperplasia Tooth (0) (0) (0) (0) (2) Malformation 2 [2.0]	1		,	1 [2.0]		
Epithelium, Hyperplasia 6 [2.2] 5 [2.4] 5 [1.8] 8 [2.5]  Stomach, Glandular (50) (50) (50) (50) (50)  Edema 4 [1.5] 3 [1.7] 1 [1.0] 6 [1.7]  Erosion 7 [2.4] 5 [2.2] 7 [2.0] 8 [1.8]  Hyperplasia 1 [2.0]  Ulcer 2 [3.0] 3 [1.7] 2 [3.0]  Tongue (0) (1) (0) (1)  Hyperplasia 1 [1.0]  Tooth (0) (0) (0) (0) (2)  Malformation 2 [2.0]	5 [3.6]	5 [3.6]	2 [3.5]		3 [3.0]	
Stomach, Glandular       (50)       6 [1.7]       2 [2.0]       8 [1.8]       (10)       8 [1.8]       (10)	8 [2.5]	8 [2.5]				
Edema 4 [1.5] 3 [1.7] 1 [1.0] 6 [1.7] Erosion 7 [2.4] 5 [2.2] 7 [2.0] 8 [1.8] Hyperplasia 1 [2.0] Ulcer 2 [3.0] 3 [1.7] 2 [3.0] Tongue (0) (1) (0) (1) Hyperplasia 1 [1.0] Tooth (0) (0) (0) (2) Malformation 2 [2.0]	(50)	(50)	(50)	(50)	(50)	Stomach, Glandular
Erosion 7 [2.4] 5 [2.2] 7 [2.0] 8 [1.8]  Hyperplasia 1 [2.0]  Ulcer 2 [3.0] 3 [1.7] 2 [3.0]  Tongue (0) (1) (0) (1)  Hyperplasia 1 [1.0]  Tooth (0) (0) (0) (0)  Malformation 2 [2.0]						
Hyperplasia 1 [2.0] Ulcer 2 [3.0] 3 [1.7] 2 [3.0]  Tongue (0) (1) (0) (1)  Hyperplasia 1 [1.0]  Tooth (0) (0) (0) (0)  Malformation 2 [2.0]	8 [1.8]	8 [1.8]			7 [2.4]	Erosion
Ulcer 2 [3.0] 3 [1.7] 2 [3.0]  Tongue (0) (1) (0) (1)  Hyperplasia 1 [1.0]  Tooth (0) (0) (0) (0)  Malformation 2 [2.0]	- 1 - 1		,	- 1	1 ເວົ້າ	
Tongue (0) (1) (0) (1) Hyperplasia 1 [1.0] Tooth (0) (0) (0) (2) Malformation 2 [2.0]  ARDIOVASCULAR SYSTEM			2 [3.0]	3 [1.7]		
Hyperplasia Tooth (0) (0) (0) (2) Malformation 2 [2.0]  ARDIOVASCULAR SYSTEM	(1)	(1)				
Tooth (0) (0) (0) (2) (2) (2) (3) (4) (4) (4) (5) (6) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	1 [1.0]	1 [1.0]	(-)	( )	(-)	
Malformation 2 [2.0] ARDIOVASCULAR SYSTEM	(2)	(2)	(0)	(0)	(0)	
	2 [2.0]	2 [2.0]	(-/	(-)	(-)	
Hoort (E0) (E0) (E0) (E0)						ARDIOVASCULAR SYSTEM
THEALL (3U) (3U) (3U) (3U)	(50)	(50)	(50)	(50)	(50)	Heart
Cardiomyopathy 47 [1.7] 46 [1.7] 48 [1.8] 48 [1.7]						
Thrombosis 4 [2.3] 3 [3.3] 4 [3.0] 6 [3.3]				3 [3.3]		Thrombosis
NDOCRINE SYSTEM						NDOCRINE SYSTEM
Adrenal Cortex (50) (50) (50) (50)	(50)	(50)	(50)	(50)	(50)	Adrenal Cortex
Accessory Adrenal Cortical Nodule 23 [1.0] 27 [1.1] 28 [1.0] 19 [1.1]	19 [1.1]	19 [1.1]	28 [1.0]	27 [1.1]	23 [1.0]	Accessory Adrenal Cortical Nodule

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

Species/Strain: RATS/F 344

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)

**CAS Number:** 5589-96-8

Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22 First Dose M/F: 09/26/01 / 09/26/01

FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
Hyperplasia, Focal	11 [1.8]	13 [1.5]	12 [1.3]	9 [1.3]	
Hyperplasia, Diffuse	1	1 [2.0]	1		
Hypertrophy, Focal	5 [1.4]	3 [1.0]	3 [1.0]	4 [1.5]	
Necrosis	1 [4.0]	- 1 - 1		1	
Bilateral, Atrophy	,		1 [4.0]		
Adrenal Medulla	(50)	(50)	(50)	(50)	
Hyperplasia	19 [1.8]	22 [2.0]	20 [1.8]	28 [2.0]	
Necrosis	.0[0]	[]	20 [0]	1 [3.0]	
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Hyperplasia	(00)	1 [3.0]	(33)	1 [2.0]	
Pituitary Gland	(48)	(50)	(50)	(50)	
Pars Distalis, Angiectasis	23 [2.1]	27 [2.3]	23 [2.3]	20 [2.2]	
Pars Distalis, Cyst	5 [1.6]	1 [1.0]	4 [1.5]	4 [1.5]	
Pars Distalis, Hemorrhage	1 [4.0]	1 [1.0]	<del>4</del> [1.0]	4 [1.0]	
Pars Distalis, Hyperplasia	1 [4.0]			1 [4.0]	
Pars Distalis, Hyperplasia, Focal	10 [1.9]	8 [1.1]	9 [2.0]	9 [1.6]	
Pars Intermedia, Cyst	10 [1.9]	0[1.1]	9 [2.0] 1 [1.0]	9 [1.0]	
Thyroid Gland	(50)	(50)	(50)	(50)	
Ultimobranchial Cyst	2 [1.0]	3 [1.0]	3 [1.0]	1 [1.0]	
C-cell, Hyperplasia	21 [1.7]	15 [2.0]	15 [2.0]	24 [1.4]	
Follicle, Cyst	11 [1.3]	11 [1.3]	5 [1.4]	9 [1.0]	
GENERAL BODY SYSTEM					
Peritoneum	(0)	(4)	(2)	(3)	
GENITAL SYSTEM					
Epididymis	(50)	(50)	(50)	(50)	
Hyperplasia, Mesothelium	,	1 [1.0]	` '	,	
Preputial Gland	(50)	(49)	(50)	(49)	
Cyst	4 [1.8]	4 [1.5]	3 [1.7]	7 [1.9]	
Inflammation, Chronic	3 [2.0]	2 [2.0]	8 [1.8]	6 [1.8]	
Prostate	(50)	(50)	(50)	(50)	
Inflammation, Chronic	36 [1.7]	32 [1.7]	35 [1.8]	34 [1.8]	
Epithelium, Hyperplasia	7 [1.3]	4 [1.0]	7 [1.0]	5 [1.2]	
Seminal Vesicle	(50)	(50)	(50)	(50)	
Inflammation	(55)	(00)	(00)	1 [3.0]	
Testes	(50)	(50)	(50)	(50)	
	(00)	(00)	(00)	(00)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

Species/Strain: RATS/F 344

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FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
Germinal Epithelium, Atrophy	13 [2.5]	12 [2.3]	7 [2.3]	10 [2.3]	
EMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Hyperplasia	5 [2.2]	7 [2.0]	8 [2.1]	3 [2.0]	
Myelofibrosis		1 [1.0]		2 [2.0]	
Lymph Node	(14)	(31)	(19)	(25)	
Deep Cervical, Hemorrhage	` ,	1 [2.0]	,	,	
Mediastinal, Congestion	1 [1.0]				
Mediastinal, Hemorrhage		6 [1.3]	1 [3.0]	4 [1.5]	
Mediastinal, Hyperplasia, Lymphoid	6 [1.5]	8 [1.3]	9 [1.2]	7 [1.4]	
Pancreatic, Amyloid Deposition		1 [3.0]			
Pancreatic, Hyperplasia, Lymphoid		4 [1.0]	4 [1.0]		
Lymph Node, Mandibular	(1)	(3)	(0)	(0)	
Hyperplasia, Lymphoid	, ,	1 [1.0]	, ,	, ,	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	
Hyperplasia, Lymphoid		9 [1.2]	4 [1.0]		
Spleen	(50)	(50)	(50)	(50)	
Accessory Spleen				1 [1.0]	
Amyloid Deposition		1 [1.0]			
Fibrosis	1 [1.0]	2 [1.5]	2 [2.0]	3 [2.0]	
Hematopoietic Cell Proliferation	5 [2.0]	7 [2.3]	6 [2.7]	3 [3.0]	
Necrosis		1 [3.0]			
Pigmentation		1 [1.0]	2 [1.5]	1 [1.0]	
Lymphoid Follicle, Hyperplasia		1 [3.0]			
Thymus	(49)	(50)	(50)	(48)	
ITEGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(50)	(50)	
Cyst	21 [1.5]	14 [1.5]	16 [1.6]	18 [1.2]	
Hyperplasia	2 [1.5]	[ ]	10 [1.0]	1 [2.0]	
Skin	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion	2 [2.5]	2 [2.0]	1 [3.0]	3 [2.3]	
Hyperplasia	2 [2.5]	_ [=.0]	. [0.0]	2 [2.0]	
Inflammation, Chronic	1 [2.0]			- [0]	
Epidermis, Hyperplasia	. [=,0]		1 [3.0]		
1			. [0.0]		

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Route: DOSED WATER

Species/Strain: RATS/F 344

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FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
IUSCULOSKELETAL SYSTEM					
Bone Cranium Octoonetrasia	(50)	(50)	(50)	(50)	
Cranium, Osteopetrosis Femur, Osteopetrosis	1 [3.0]	4 [1.5]		2 [1.5] 1 [2.0]	
Skeletal Muscle	(1)	(4)	(0)	(1)	
ERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
Compression Hemorrhage	5 [3.4] 2 [1.0]	8 [3.3] 3 [1.7]	11 [3.0] 4 [2.3]	5 [3.4] 1 [4.0]	
Necrosis	1 [2.0]			. ,	
ESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Hemorrhage Infiltration Cellular, Histiocyte	2 [1.0] 24 [1.2]	2 [1.0] 23 [1.0]	27 [1.0]	3 [1.3] 25 [1.0]	
Inflammation, Chronic	5 [1.2]	3 [1.0]	7 [1.3]	6 [1.3]	
Alveolar Epithelium, Hyperplasia Nose	7 [1.6] (50)	14 [1.9] (50)	14 [1.6] (50)	10 [1.9] (50)	
Foreign Body	14 [1.1]	9 [1.0]	14 [1.2]	18 [1.0]	
Inflammation, Chronic	18 [1.2]	9 [1.0]	16 [1.6]	21 [1.2]	
Nasolacrimal Duct, Cyst	1 [2.0]	1 [4.0]			
PECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	
Cataract Harderian Gland	2 [2.5] (50)	3 [2.3] (50)	3 [2.0] (50)	2 [2.0] (50)	
Hyperplasia, Focal	1 [1.0]	1 [1.0]	(50)	(50)	
Inflammation, Chronic	1 [1.0]	1 [2.0]	4.0	3 [1.0]	
Zymbal's Gland	(1)	(1)	(1)	(0)	
RINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	

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**TDMS No.** 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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FISCHER 344 RATS MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
Cyst	1 [1.0]			1 [2.0]	
Infarct	1 [1.0]	2 [2.0]		2 [2.5]	
Nephropathy	47 [1.8]	47 [1.9]	43 [1.9]	45 [2.1]	
Pelvis, Inflammation				1 [2.0]	
Renal Tubule, Pigmentation			1 [4.0]		
Transitional Epithelium, Hyperplasia	1 [1.0]			2 [1.0]	
Urinary Bladder	(50)	(50)	(50)	(49)	
Hemorrhage				1 [2.0]	
Inflammation				1 [2.0]	

<sup>\*\*\*</sup> END OF MALE \*\*\*

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FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Disposition Summary				
Animals Initially in Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	12	14	9	13
Natural Death	4	5	4	2
Survivors				
Natural Death			1	
Terminal Sacrifice	34	31	36	35
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Cecum	(48)	(47)	(48)	(49)
Intestine Large, Colon	(50)	(49)	(50)	(50)
Hyperplasia	(,	( - /	()	1 [2.0]
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Hyperplasia	,	,	1 [4.0]	,
Inflammation				1 [2.0]
Intestine Small, Duodenum	(49)	(48)	(49)	(49)
Ectopic Tissue		1 [1.0]		
Intestine Small, Ileum	(47)	(47)	(48)	(48)
Intestine Small, Jejunum	(47)	(47)	(48)	(48)
Liver	(50)	(50)	(50)	(50)
Angiectasis		2 [1.0]	2 [1.0]	
Basophilic Focus	39	37	37	31
Clear Cell Focus	14	11	16	17
Degeneration, Cystic Eosinophilic Focus	1 [1.0] 1	6	9	15
Hemorrhage	1 1 [1.0]	O	y	10
Hepatodiaphragmatic Nodule	11 [1.7]	10 [1.9]	5 [2.0]	8 [1.7]
Inflammation, Chronic	14 [1.1]	17 [1.1]	19 [1.2]	10 [1.0]
Mixed Cell Focus	1	4	6	10 [1.0]
Necrosis, Focal		•	1 [1.0]	2 [1.0]
Bile Duct, Hyperplasia	19 [1.5]	19 [1.9]	21 [1.7]	16 [2.1]
Hepatocyte, Vacuolization Cytoplasmic	6 [1.7]	4 [1.0]	3 [1.7]	3 [1.0]
Mesentery	(9)	(9)	(9)	(6)
Accessory Spleen	1 [1.0]		1 [2.0]	

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FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
Hemorrhage				1 [2.0]	
Fat, Necrosis	7 [2.6]	9 [2.4]	8 [2.4]	4 [2.3]	
Oral Mucosa	(2)	(0)	(0)	(1)	
Pancreas	(50)	(50)	(50)	(50)	
Atrophy	21 [1.2]	20 [1.5]	22 [1.2]	22 [1.2]	
Cyst	1 [1.0]	20 [1.5]	22 [1.2]	22 [1.2]	
Acinus, Hyperplasia, Focal	2 [1.0]	1 [2.0]	1 [1.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Edema	(50)		2 [2.0]		
		2 [2.0]		1 [1.0]	
Erosion Perforation			1 [2.0]	1 [4 0]	
	4 [0 0]	0.10.51		1 [4.0]	
Ulcer	1 [3.0]	2 [3.5]	2 [2 0]	1 [4.0]	
Epithelium, Hyperplasia	6 [1.0]	2 [3.0]	3 [2.0]	6 [1.5]	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Edema	0.14.01	1 [1.0]	3 [2.0]	2 [1.5]	
Erosion	2 [1.0]	0.50.01	5 [2.4]	2 [1.5]	
Ulcer	(4)	2 [2.0]	44)	1 [3.0]	
Tongue	(1)	(0)	(1)	(0)	
CARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	44 [1.3]	43 [1.3]	48 [1.2]	44 [1.4]	
Thrombosis	[0]	1 [4.0]	10 [1.2]	[]	
ENDOCRINE SYSTEM					
	(50)	(50)	(50)	(50)	
Adrenal Cortex	(50)	(50)	(50)	(50)	
Accessory Adrenal Cortical Nodule	17 [1.0]	11 [1.0]	12 [1.0]	13 [1.1]	
Hyperplasia, Focal	17 [2.0]	17 [2.1]	18 [1.7]	25 [2.1]	
Hypertrophy, Focal	5 [1.2]	2 [1.0]	3 [1.0]	6 [1.3]	
Adrenal Medulla	(49)	(47)	(50)	(50)	
Hemorrhage				1 [3.0]	
Hyperplasia	5 [1.8]	6 [2.0]	4 [1.5]	7 [1.7]	
Necrosis		4	4	1 [3.0]	
Islets, Pancreatic	(49)	(50)	(50)	(50)	
Hyperplasia	1 [4.0]		1 [1.0]		
Pituitary Gland	(50)	(50)	(50)	(50)	
Pars Distalis, Angiectasis	32 [2.0]	32 [2.4]	33 [2.0]	30 [1.8]	

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**TDMS No.** 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Pars Distalis, Cyst	28 [1.6]	27 [1.8]	31 [1.8]	29 [2.0]
Pars Distalis, Hyperplasia Pars Distalis, Hyperplasia, Focal	14 [1.6]	11 [1.8]	6 [2.0]	1 [3.0] 17 [2.1]
Pars Intermedia, Cyst	11[1.0]	11[1.0]	1 [1.0]	., [2]
hyroid Gland	(49)	(50)	(50)	(50)
Últimobranchial Cyst	1 [1.0]	1 [1.0]	2 [1.0]	1 [1.0]
C-cell, Hyperplasia Follicle, Cyst	25 [1.5] 5 [1.0]	28 [1.8] 3 [1.7]	23 [1.4] 2 [2.0]	23 [1.4] 4 [1.0]
IERAL BODY SYSTEM				
lone				
NITAL SYSTEM				
Clitoral Gland	(50)	(49)	(50)	(47)
Cyst	4 [2.0]	6 [2.0]	7 [1.6]	7 [1.1]
Hyperplasia	1 [2.0]			1 [2.0]
Inflammation, Chronic	2 [2.0]	2 [1.0]	3 [1.7]	2 [1.0]
Inflammation, Chronic Active	(50)	(50)	(FO)	1 [3.0]
Ovary Cyst	(50) 7 [1.7]	10 [1.9]	(50) 6 [1.8]	(50) 11 [1.5]
Uterus	(50)	(50)	(50)	(50)
Cyst	(50)	(50)	1 [1.0]	1 [1.0]
Hemorrhage		1 [2.0]	. []	1 [1.0]
Hydrometra	1 [1.0]	2 [1.5]	4 [1.3]	4 [1.3]
Inflammation, Chronic		1 [2.0]		
Cervix, Cyst			1 [2.0]	1 [2.0]
Cervix, Hypertrophy Endometrium, Cyst				1 [3.0]
Endometrium, Cyst Endometrium, Hyperplasia	1 [3.0]			1
/agina	(0)	(1)	(0)	(1)
Cyst	(0)	1 [2.0]	(0)	( ' /
Inflammation, Acute		r - 1		1 [4.0]
MATOPOIETIC SYSTEM				
Sone Marrow	(50)	(50)	(50)	(50)

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Route: DOSED WATER

Species/Strain: RATS/F 344

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FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
Hyperplasia	6 [1.7]	7 [1.9]	5 [1.6]	6 [1.7]	
Myelofibrosis Lymph Node Deep Cervical, Hyperplasia, Lymphoid	1 [2.0] (15) 1 [1.0]	(20)	(11)	(16)	
Mediastinal, Hemorrhage Mediastinal, Hyperplasia, Lymphoid	2 [1.5] 6 [1.5]	1 [1.0] 14 [1.1]	8 [1.0]	2 [1.0] 11 [1.3]	
Pancreatic, Hyperplasia, Lymphoid	1 [1.0]		1 [1.0]	1 [1.0]	
Lymph Node, Mandibular Hyperplasia, Lymphoid	(0)	(2)	(1)	(1) 1 [1.0]	
Lymph Node, Mesenteric Edema	(50)	(50)	(50)	(50) 1 [2.0]	
Hyperplasia, Lymphoid Spleen	2 [1.0] (50)	3 [1.0] (50)	3 [1.7] (50)	8 [1.4] (50)	
Fibrosis Hematopoietic Cell Proliferation	3 [1.3]	11 [1.2]	1 [1.0] 10 [1.2]	2 [1.5] 8 [2.0]	
Necrosis	1 [2.0]				
Pigmentation Thymus	3 [1.7] (50)	6 [1.0] (50)	4 [1.0] (50)	2 [2.5] (50)	
INTEGUMENTARY SYSTEM					
Mammary Gland Cyst Skin Cyst Epithelial Inclusion Edema	(50) 47 [1.5] (50)	(50) 47 [1.5] (50) 1 [3.0]	(50) 46 [1.6] (50)	(50) 45 [1.6] (50)	
Hyperkeratosis Inflammation, Chronic	1 [1.0] 1 [4.0]	1 [1.0]			
MUSCULOSKELETAL SYSTEM					
Bone Cranium, Osteopetrosis	(50)	(50) 1 [2.0]	(50)	(50)	
Femur, Osteopetrosis	1 [2.0]	1 [2.0]		3 [2.0]	
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	

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Species/Strain: RATS/F 344

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FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L	
Compression Hemorrhage	10 [2.8]	15 [2.3]	9 [2.1] 3 [2.7]	10 [2.1]	
RESPIRATORY SYSTEM					
Lung Congestion	(50)	(50) 2 [1.0]	(50)	(50)	
Hemorrhage Infiltration Cellular, Histiocyte	1 [1.0] 36 [1.0]	44 [1.0]	44 [1.0]	2 [2.0] 45 [1.0]	
Inflammation, Chronic Metaplasia, Osseous	8 [1.0]	10 [1.0]	6 [1.0] 1 [1.0]	7 [1.0]	
Alveolar Epithelium, Hyperplasia Pleura, Fibrosis	5 [1.8] 1 [2.0]	7 [2.1]	8 [1.6]	18 [1.8]	
Nose	(50)	(50)	(50)	(50)	
Foreign Body	2 [1.0]	1 [1.0]	3 [1.0]	2 [1.0]	
Inflammation, Chronic	3 [2.0]	1 [1.0]	3 [1.0]	6 [1.5]	
SPECIAL SENSES SYSTEM					
Eye	(50)	(50)	(50)	(50)	
Cataract	4 [2.5]	2 [2.5]	2 [2.5]	3 [2.3]	
Harderian Gland Inflammation, Chronic	(50)	(50)	(50)	(50)	
Zymbal's Gland	3 [1.0] (0)	5 [1.0] (2)	4 [1.0] (0)	(0)	
URINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	
Infarct	00 [4 4]	2 [2.0]	2 [2.0]	7 [1.7]	
Nephropathy Cortex, Inflammation, Chronic	36 [1.1]	42 [1.1]	43 [1.4]	40 [1.3] 1 [2.0]	
Transitional Epithelium, Hyperplasia, Diffuse		3 [1.7]	2 [2.0]	6 [2.3]	
Transitional Epithelium, Inflammation, Chronic Active		3 [1.7]	3 [2.0]	6 [2.2]	
Urinary Bladder	(50)	(50)	(50)	(50)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

**TDMS No.** 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

#### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)

**CAS Number:** 5589-96-8

Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Regsted: 03/28/2006

Time Report Reqsted: 15:00:22 First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L

\*\*\* END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)